

• First Glances at New Books

Astronomy—Physics

NEW PATHWAYS IN SCIENCE—Sir Arthur Eddington—*Macmillan*, 333 p., \$3. Except for Eddington's small book on the Expanding Universe the present volume is the first from his pen since 1929. Sir Arthur admits he about wrote himself out at that time but now he returns to the field of popular writing on science with the benefit of a rest and much new material. Minus two chapters the book consists of Eddington's Messenger Lectures delivered at Cornell University last spring. With chapters on the End of the World, The Decline of Determinism, Quantum Theory, Probability and Star Constitution Eddington goes on into The Theory of Groups when he says, "We need a super-mathematics in which the operations are as unknown as the quantities they operate on, and a super-mathematician who does not know what he is doing when he performs these operations. Such a super-mathematics is the Theory of Groups." All of which is Sir Arthur's pleasing way of discussing how physicists today start their calculations and hypotheses by assuming only the bare essentials and arrive at formulae which help research by correctly predicting results, but which leave them without a "real" leg to stand on.

Science News Letter, April 13, 1935

Periodicals

YOUNG AMERICA: VOL. 1, No. 1, MARCH 8, 1935—*Eton Publishing Corp., New York*, Weekly, \$3 per year. Well illustrated, and more like a magazine than a newspaper, this publication for young readers covers a wide field of interests in an interesting style.

Science News Letter, April 13, 1935

Periodicals

THE BOYS' AND GIRLS' NEWSPAPER; VOL. 1, No. 3, MARCH 10, 1935—*Parents' Magazine Affiliated Press, Inc., New York*, Weekly, 7c. per copy, \$3. per year. A weekly newspaper bringing the news of the world to the younger members of the family. It is complete with housekeepers' page, movie reviews, and, of course, science news.

Science News Letter, April 13, 1935

Archaeology

ANNUAL OF THE AMERICAN SCHOOLS OF ORIENTAL RESEARCH, VOL. XIV, FOR 1933-34—*American Schools of Oriental Research*, 144 p., \$2.50. Prof. Nelson

Glueck's archaeological survey of Transjordan, and his reconstruction of events in the land of Moab, make up the larger part of this annual. There is also a discussion of the Book of Nehemiah as a source for locating gates and walls of Jerusalem, by Millar Burrows, and a note on an Aramaic incantation of about the seventh century A. D., presented by Cyrus H. Gordon.

Science News Letter, April 13, 1935

Education

STATISTICS OF HIGHER EDUCATION, 1931-32—U. S. Office of Education—*Government Printing Office*, 401 p., 25c. A report of statistics gathered three years ago. This publication is chapter III of the Biennial Survey of Education and concerns American institutions of higher learning.

Science News Letter, April 13, 1935

Book Publishing

ONE HUNDRED AND FIFTY YEARS OF PUBLISHING, 1785-1935—*Lea & Febiger*, 42 p., free. (Obtainable through *Science Service* if 10c. handling charge is sent). The interesting history of one of America's oldest publishing houses, first established by Mathew Carey through a loan from the Marquis de La Fayette. The business has been handed down from father to son during the century and a half of its operation.

Science News Letter, April 13, 1935

History of Agriculture

THE AGRICULTURAL FAIR—Wayne Caldwell Neely—*Columbia University Press*, 313 p., \$3.75. The State or County fair, with its hippopotamine hogs, its behemoth beeves, its sideshows and its trotting races, is a glamorous memory to all Americans with even a trace of rural background. But it has also been a solid contributor to the advance of American agriculture and rural life, and as such merits the serious treatment of its history and development which it receives in this book. There is an astonishingly full bibliography—23 pages of it—and there are many interesting full-page illustrations.

Science News Letter, April 13, 1935

Physics

SOUND: A PHYSICAL TEXTBOOK—E. G. Richardson—*Longmans, Green*, 319 p., \$5.50. The second edition of this widely used textbook on sound finds its value increasing. Intended for students about to start on graduate work it describes the mathematical needs of the field, the physical concepts and all the major "pure" research and technological applications. As before it discusses all the musical instruments. It is hard to find a single page which does not have a footnote referring to some paper in the literature of sound.

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Science Teaching

THE SCIENCE COUNSELOR—*Duquesne University Press*, Quarterly, \$1 per year; Canada, \$1.25. A new journal devoted to the advancement of science teaching in Catholic high schools. There are leading articles on subject matter and teaching methods, illustrated accounts of "make-it-yourself" devices and apparatus constructed by students, discussion topics for teacher opinion, brief news notes and book reviews. *The Science Counselor* may well be read with profit by many teachers outside the denominational limits it sets for itself.

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Natural History

BUTTERFLIES AND MOTHS OF AMERICA—Lillian D. Fazzini—95 p.; **WILD FLOWERS OF AMERICA**—Jane Harvey—95 p.; **THE RED BOOK OF BIRDS OF AMERICA**—Frank G. Ashbrook—95 p.; **TREES YOU WANT TO KNOW**—Donald C. Peattie; *Whitman Publishing Co.*, 10c. each. A series of vestpocket-size booklets in tough paper covers, very handy to carry in the field. Each gives condensed text description and small colored figures for several score of the more familiar species with which it deals.

Science News Letter, April 13, 1935

Engineering

TRANSACTIONS, INSTITUTE OF METALS DIVISION, 1934—*American Institute of Mining and Metallurgical Engineers*, 379 p., \$5.

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